

**PULP FORMATION FROM LIGNOCELLULOSE MATERIAL**

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**Abstract of JP11100783**

**PROBLEM TO BE SOLVED:** To constantly obtain pulp in high yield by stabilizing the reducible terminal groups of hemicellulose to efficiently solubilize lignin in the production of pulp through the polysulfide process.

**SOLUTION:** A tightly closed vessel in which chips are contained is evacuated and a PS digestion liquid containing a proper amount of a digestion aid is charged into the evacuated vessel thereby penetrating the PS digestion liquid into chips without resistance of air. Then, the vessel is held under the conditions of 80-140 deg.C for at least 10 minutes to stabilize hemicellulose in the first step. In the second step, a pressure of  $\geq 1,200$  kpa is applied to improve the yield of hemicellulose and cellulose, lower the molecular weight of lignin and elute low-molecular-weight lignin by the action of 9, 10-anthraquinone that is a pulp-digesting aide and a catalyst for improving the pulp yield, even after the pulp digestion temp. reaches 140 deg.C and the PS digestion liquid becomes undetectable.

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**Family list**

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